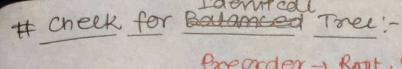
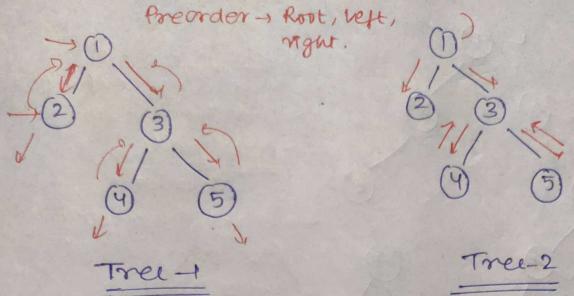
Maxmum Path Sum: 20+15+7 20 Pseudo Codu: Int maxpath (node, max) { ef (mode == null) return 0; lettsum = maxpatu (nodes left); rightsum = maxpath (node -729ht); maxi = max (maxi, letsum + rightsum + riode - yvo) return (mode-year) + max (left sum, right in # Code:ant maxPath_Sum (Tree Node * root) { ant max = INT_MIN; max Path Down (root, max?); return max?; maxPathDown (Tree Node * root, ent & max) of (node == NULL) return 0; ant left = max (0, max Path Down (node-71ettime) ant right = max (0, " (node - right, maxi); max1 = max (max1, left+right + node-y val); return max (left, right) + node-yeal;





use any traversal technique to check for Balanced Trees.

bool is sometree (Tree Node * p, Tree Node * 9) {

Pf(p==NULL | 1 q==NULL) {

return (p==q);

}

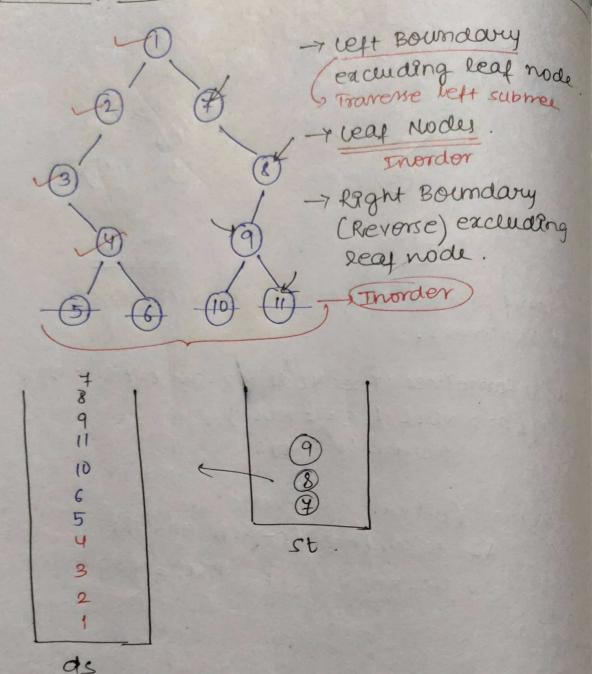
return (p-) val == q-7 val)

Pf resameTree (p-) left, q-) left):

29 resameTree (p-) regut;

3

Boundary Traversal of a Benary 18 el (runiclocky)



vector 2914 prant Boundary (Node * 2001) {

rector antimes;

of (! 95 Leaf (root)) res. push-back (root-> data);

add left Boundary (noot, nes);

haddleaf nodes. addreaves (root, res);

add RightBoundary (not nes):

```
Code :
   bool 9sleaf (Nocle *root) }
        return! robt -> veft ft ! root -> right;
  vord add reft Boundary (Node * root, vector (9nt) fres);
         Node & cur = root -> beft;
        where (cur) f
          If (! releaf (cwr)) res. push-back (cwr-rdata);
          P1 (cwr-rieft) cwr= cwr-rieft;
          else cur = cur - yright;
 void add Right Boundary ( Mode & root, vector 29nt ) fres) {
        Mode of cur = root - roght;
        vector (mt) temp;
        where cour) {
           of (19steaf (wr)) temp. push_back (wr->data);
          of (cur-yright) cur= cur-yright;
          else cum = cur-y beft;
     for (9nt 9= temp. 572e()-1; 94=0; 7--){
          res. push_back (temp[1]);
     addleaves (Node & root, vector <mt> fres) {
Vord
       of (9s reaf (not)) }
          res. push-back (root-rdata);
          return;
    of (noot-reft) add beaves (nout-reft, res):
    of (root-right) addreaves (root-right, res);
```